

INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY 50X1-HUM

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

S E C R E T

50X1-HUM

COUNTRY Yugoslavia

REPORT

SUBJECT Yugoslav Development of Automation System for Merchant Ships

DATE DISTR. 23 SEP 1964

NO. PAGES 2

50X1-HUM

REFERENCES

DATE OF INFO.
PLACE & DATE ACQ.

THIS IS UNEVALUATED INFORMATION. SOURCE GRADINGS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE. 50X1-HUM 50X1-HUM

- 1. In the ETAN Laboratory of the Vinca Research Center a simulator model for the piloting and centralized control of steamships has been worked out. Technicians from the Split Shipyard participated in this research. The simulator was in working condition in March 1964 and was used for the project of a typical control system which, it is anticipated, will be eventually installed in surface vessels, including those of the merchant fleet.

S E C R E T

50X1-HUM 5 4 3 2 1
GROUP 1
Excluded from automatic
downgrading and
declassification

STATE	DIA	ARMY	NAVY	AIR	NSA	XXX NIC		50X1-HUM
(Note: Field distribution indicated by "#")								

INFORMATION REPORT INFORMATION REPORT

S E C R E T

50X1-HUM

2. The peculiarity of this system will be the use of servo-controls and control circuits of the pneumatic type. All information and controls will be transmitted in the form of pneumatic signals (compressed air) while the special transducers will transform, where necessary, the pneumatic signals into electric information. The Yugoslavs decided that the pneumatic control was more accurate than the electric one; they compared the Soviet system which, in automatic machine-tools and even computers, tends rather to the utilization of compressed air circuits.
3. The practical installation of a centralized control system on a merchant ship is scheduled for the coming winter, and thus for 1964. This involves an integrated control system, in the sense that it will include a gyro-compass, radar and course plotter. The completion of the automation project is to be the direct responsibility of the ETAN Laboratory.^{1/}

1/ Comment: The above report indicates again that research other than nuclear is under way at the Vinca Center.

50X1-HUM

S E C R E T

50X1-HUM